In re Application of: Francois-Arnaud Remael
Application No. 09/868,731
Response to Office Action of December 28, 2005

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claim 1 (previously presented): Method of addressing in a digital telecommunications network having first and second addressing zones between which an interface caters for address translations, comprising the following steps:

a name and address server situated in the first addressing zone receives, origination from a first address of the first zone, assigned to a source machine, a request to provide an address in relation to the name of a destination machine;

if the destination machine is situated in the second addressing zone, the name and address server sends to a second address of the first zone a first packet containing at least the said name of destination machine;

the interface retransmits the first packet to a first address of the second zone, assigned to a management unit and associated in a static manner with the second address of the first zone;

the management unit obtains a second address of the second zone assigned to the destination machine whose name appears in the first packet;

the management unit sends the interface a second packet destined for the name and address server comprising the second address of the second zone as origin address;

the interface transmits the second packet to the name and address server while replacing the origin address by a third address of the first zone, forming part of a list of addresses of the first zone allotted to the second addressing zone and associated in a dynamic manner with the second address of the second zone;

the name and address receives the second packet, extracts therefrom the third address forming the origin address, and includes this third address in a response to the address provision returned to the first address of the first zone.

Claim 2 (previously presented): Method according to Claim 1, wherein the said first packet sent by the name and address server to the said second address of the first zone contains, in addition to the said name of destination machine, a sequence number and/or an authentication key.

2

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Claim 3 (previously presented): Method according to Claim 1, wherein the name and address server includes in the response a lifetime cue representing a minimum duration of dynamic match between the said second address of the second zone and the said third address of the first zone.

Claim 4 (previously presented): Method according to Claim 1, wherein the management unit or a second name and address server associated with this unit interrogates the destination machine after having obtained the second address of the second zone so as to confirm the presence of this destination machine before sending the second packet to the interface.

Claim 5 (previously presented): Name and address server in a digital telecommunications network having first and second addressing zones between which an interface caters for address translations, the said server being situated in the first addressing zone and comprising:

a data storage module for storing associations between machine names and addresses of the first zone; and

a data processing module designed to respond to the receipt, originating from a first address of the first zone, of a request for provision of an address in relation to the name of a destination machine belonging to the second addressing zone though the transmission to a second address of the first zone of a first packet containing at least the said name of destination machine, and to send back to the said first address, after receipt from the second zone of a second packet containing a third address of the first zone associated in a dynamic manner with a second address of the second zone, a response providing the said third address of the first zone.